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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,715	12/29/2005	Martin Hermann Weggen	3135-052069	9810
26289 7599 609222008 THE WEBB LAW FIRM, P.C. 700 KOPPERS BUILDING 436 SEVENTH AVENUE PITYSBURGIL PA 152119			EXAMINER	
			SMOOT, STEPHEN W	
			ART UNIT	PAPER NUMBER
	.,		2813	
			MAIL DATE	DELIVERY MODE
			09/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/541,715	WEGGEN ET AL.	
Examiner	Art Unit	
Stephen W. Smoot	2813	

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.				
 If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the making date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become BARDADCED (35 U.S.C.). Any reply received by the Office later than three months after the making date of this communication, even if timely filled, may reduce any earned pattern term adjustment. See 37 CFR 1.7016. 				
Status				
1) Responsive to communication(s) filed on 17 July 2008.				
2a)⊠ This action is FINAL. 2b)□ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) Claim(s) 18-28 is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>18-28</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or election requirement.				
Application Papers				
9) The specification is objected to by the Examiner.				
10)⊠ The drawing(s) filed on <u>08 July 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:				
· ·- ·-				
Certified copies of the priority documents have been received.				
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 				
application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.				
See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)				

1) Notice of References Cited (PTO-892)	4) Interview Summary (P
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
3) Information Disclosure Statement(s) (PTO/S5/08)	5). Notice of Informal Pati
Paper No(s)/Mail Date .	6) Other:

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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DETAILED ACTION

This Office action is in response to applicant's amendment filed on 17 July 2008.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 18-22, 25, 27-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Peters et al. (WO 01/17012 A1 – from applicant's IDS).

Referring to Figs. 1-4 and page 4, line 16 to page 5, line 26, Peters et al. disclose an encapsulating device (1, 15) for encapsulating an electronic component (6) mounted on a carrier (5) with encapsulating material (7, 13, 14). Further, the electronic component (6) component can be a semiconductor as indicated on page 1, lines 3-4. The device (15) corresponding to the embodiment of Fig. 4 includes two displaceable co-acting upper mold (2) and lower mold (16, 17) parts that can be closed, as shown in

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Fig. 3, to define a cavity (4) for encapsulating the electronic component (6) with encapsulating material (14). The lower mold part (16, 17) includes a sleeve (16) rigidly linked with a holder strip (17). The holder member (17) further includes a chamfered end (11 in Fig. 2) (i.e. a projecting edge) that shields part of the carrier (5). The carrier (5) is supported on a third mold part (3) that is displaceable with respect to the lower mold part (16, 17) so that the shielded portion of the carrier (5) can be pressed against the chamfered end (11 in Fig. 2) when the mold is in a closed position for encapsulating as shown in Fig. 3. The encapsulating device (1, 15) includes a plunger (8, 9) for feeding liquid encapsulating material (13, 14) over the chamfered end (11 in Fig. 2) and into the mold cavity (4) via a runner (12) corresponding to the holder member (17). After partial curing of the liquid encapsulating material (13, 14), the upper mold part (2) and the third mold part can be moved apart to release the encapsulated package (5, 6, 14).

These are all of the structural limitations as set forth in claims 18-22 of the applicant's invention.

Regarding claims 25, 27-28 and also referring to page 3, line 17 to page 4, line 3, Peters et al. disclose an encapsulating method that includes placing the carrier (5) on the third mold part (3) (see Fig. 4), urging (i.e. clamping) part of the carrier (5) against the holder strip (17) (see Fig. 2), closing the upper mold part (2) against the holder strip (17) to define the mold cavity (4) (see Fig. 3), and feeding liquid encapsulating material (13, 14) into the cavity (4) (see Fig. 3). After at least partial curing of the encapsulating material (13, 14), the upper mold part is moved back to open the mold assembly and

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the holder member (17) is displaced relative to the third mold part (3) to release the carrier (5).

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made.

4. Claims 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peters et al. (WO 01/17012 A1 – from applicant's IDS) as applied to claim 18 above, and further in view of Yoshihiro (JP 7-205214 A – from applicant's IDS).

As shown above, Peters et al. anticipate claim 18 of the applicant's invention.

However, Peters et al. lack the further limitations to claim 18 as set forth in claims 23-24, which are at least one pressure element arranged in a mold part (the limitation of claim 23) and the pressure element being connected to a control member (the limitation of claim 24). Yoshihiro teaches a mold assembly that utilizes a spring in an upper mold part to separate a sealed package from a runner (see JPO abstract).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Peters et al. and Yoshihiro in order to use a spring, as taught by Yoshihiro, in the upper mold part of Peters et al. to

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separate the at least partially cured encapsulating material (14) corresponding to the cavity (4) from the at least partially cured encapsulating material (13) corresponding to the runner (12). Yoshihiro recognizes that a cutting step can advantageously be combined with the step of opening the mold assembly and, thereby, be eliminated as a separate step that would otherwise be necessary after the molding operation.

 Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Peters et al. (WO 01/17012 A1 – from applicant's IDS) as applied to claim 25 above, and further in view of Shigeva (JP 7-80895 A – from applicant's IDS).

As shown above, Peters et al. anticipate claim 25 of the applicant's invention. However, Peters et al. do not expressly teach or suggest the step of rotating the carrier relative to the projecting edge, which is the further limitation to claim 25 as set forth in claim 26 of the applicant's invention. Shigeya teaches a molding method that features cutting by rotating molded products relative to runner portions (see JPO abstract).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the teachings of Peters et al. by rotating the carrier relative the holder strip, as taught by Shigeya, because Shigeya recognizes that rotating is one known way to separate a molded product from a runner by cutting.

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Response to Arguments

 Applicant's arguments filed on 17 July 2008 have been fully considered but they are not persuasive.

The applicant argues that Peters et al. lack the as claimed stationary relationship between the projecting edge and one of the mold parts. However, as indicated above and as indicated in the prior Office action mailed to the applicant on 14 April 2008, the holder member (17) and sleeve (16) of Peters et al., which includes the stationary chamfered edge (11), are interpreted as being a lower mold part.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen W. Smoot whose telephone number is 571-272-1698. The examiner can normally be reached on Monday to Friday from 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra V. Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen W Smoot/ Primary Examiner Art Unit 2813 Art Unit: 2813